

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended): A method for processing signal strength information from a radio frequency transmitter comprising the steps of:

receiving signal strength information indicating a power for the radio frequency transmitter at one or more first locations;

receiving location information representing a geographic location for one or more second locations;

dividing the received signal strength information into one or more subsets of signal strength information, such that the one or more subsets are determined based on a speed of a receiver of the received signal strength information and a corresponding distance associated with the speed;

determining, for each of the one or more subsets, a local mean, such that the local mean represents an average for one of the one or more subsets; [[and]]

estimating a location for the local mean based on the received location information;

determining at least one distance between the estimated location and another estimated location based on the speed of the receiver and the signal strength information.

Claims 2-5 (Canceled).

6. (Currently Amended): The method of claim [[2]] 1, further comprising the step of:

interpolating the local mean when the at least one distance exceeds a predetermined distance.

Claims 7-9 (Canceled).

10. (Currently Amended): A method for processing signal strength information from a radio frequency transmitter comprising the steps of:

receiving signal strength information indicating a power for the radio frequency transmitter at one or more first locations, wherein the signal strength information includes a set of signal strength data based on a signal trace;

receiving location information representing a geographic location for one or more second locations, wherein the received location information for one or more second locations includes one or more of the following: a latitude, a longitude, or at least one of a plurality of first time stamps from a receiver of global positioning system information;

attaching at least one of a plurality of second time stamps to the set of signal strength data;

smoothing the plurality of second time stamps based on the plurality of first time stamps;

dividing the received signal strength information into one or more subsets of signal strength information, such that the one or more subsets are determined based on a speed of a receiver of the received signal strength information;

determining, for each of the one or more subsets, a local mean, such that the
local mean represents an average for one of the one or more subsets;
estimating a location for the local mean based on the received location
information.

11. (Original): The method of claim 10, wherein said smoothing further comprises the step of:

smoothing the plurality of second time stamps based on a slope for the plurality of first time stamps.

12. (Original): The method of claim 1, wherein said step of determining further comprises the step of:

determining a plurality of local means such that each local mean corresponds to one of the one or more subsets.

13. (Original): The method of claim 12, wherein said step of determining further comprises the step of:

averaging one or more of the plurality of local means to provide a window average.

14. (Original): The method of claim 13, wherein said step of averaging further comprises the step of:

determining a difference value based on one of the plurality of local means and the window average.

15. (Original): The method of claim 14, wherein said step of averaging further comprises the step of:

determining a plurality of difference values.

16. (Original): The method of claim 15, further comprising the step of: calculating a standard deviation based on the plurality of difference values.

17. (Original): The method of claim 16, further comprising the step of: determining a signal coverage at a location for a wireless device based on the following equation:

$$Cp(r) = \frac{1}{2} - \operatorname{erf} \frac{w_t - LM(r)}{\sigma_{LM}}$$

wherein r represents the location, σ_{LM} represents the standard deviation, $LM(r)$ represents the local mean corresponding to the location, w_t represents a service threshold for the wireless device, and erf is a normal distribution error function.

18. (Original): The method of claim 17, wherein said step of determining the signal coverage further comprises the step of:

defining the location as at least one of the one or more first locations.

19. (Original): The method of claim 1, further comprising the step of:

defining the one or more first locations as locations that differ from the one or more second locations.

Claims 20-34 (Canceled).